Supplementary Table 1. Complete ANOVA information for Experiments 2 and 3.

Dependent measure and ANOVA factor	Experiment 2				Experiment 3			
-	df	F	p	η_p^2	df	F	р	η_p^2
Working memory accuracy				•				•
Load	1, 47	1368.45	< 0.001	0.97	1, 48	486.54	< 0.001	0.91
Spatial Compatibility	1, 47	0.45	0.50	0.01	1, 48	0.61	0.44	0.01
Imitative Compatibility	1, 47	0.93	0.34	0.02	1, 48	0.06	0.81	< 0.01
Load * Spatial Compatibility	1, 47	0.04	0.85	< 0.01	1, 48	1.65	0.21	0.03
Load * Imitative Compatibility	1, 47	0.67	0.42	0.01	1, 48	0.03	0.87	< 0.01
Spatial Compatibility * Imitative Compatibility	1, 47	6.42	0.02	0.12	1, 48	0.10	0.75	< 0.01
Load * Spatial Compatibility * Imitative Compatibility	1, 47	0.26	0.61	0.01	1, 48	0.03	0.87	<0.01
SRC accuracy								
Load	1, 47	1.19	0.28	0.03	1, 48	0.03	0.86	< 0.01
Spatial Compatibility	1, 47	32.96	<0.001	0.41	1, 48	46.08	< 0.001	0.49
Imitative Compatibility	1, 47	36.98	< 0.001	0.44	1, 48	9.40	0.00	0.16
Load * Spatial Compatibility	1, 47	1.01	0.32	0.02	1, 48	5.67	0.02	0.11
Load * Imitative Compatibility	1, 47	0.02	0.89	< 0.01	1, 48	0.34	0.56	0.01
Spatial Compatibility * Imitative Compatibility	1, 47	5.33	0.03	0.10	1, 48	5.44	0.02	0.10
Load * Spatial Compatibility * Imitative Compatibility	1, 47	0.02	0.89	<0.01	1, 48	0.01	0.93	<0.01
SRC reaction time								
Load	1, 47	3.30	0.08	0.07	1, 48	1.98	0.17	0.04
Spatial Compatibility	1, 47	76.59	< 0.001	0.62	1, 48	98.20	< 0.001	0.67
Imitative Compatibility	1, 47	30.08	< 0.001	0.39	1, 48	12.72	< 0.001	0.21
Load * Spatial Compatibility	1, 47	0.01	0.93	< 0.01	1, 48	0.38	0.54	0.01
Load * Imitative Compatibility	1, 47	0.27	0.61	0.01	1, 48	1.57	0.22	0.03
Spatial Compatibility * Imitative Compatibility	1, 47	0.18	0.68	< 0.01	1, 48	0.04	0.84	< 0.01
Load * Spatial Compatibility * Imitative Compatibility	1, 47	1.11	0.30	0.02	1, 48	< 0.001	0.99	< 0.01

Supplementary Table 2. Reaction time data in the SRC task during Experiment 1 excluding participants with less than 55% performance in the working memory task.

Experiment and Condition	Compatibility effect				
	Milliseconds [95% CI]	Cohen's dz	BF ₀₁		
Exp. 1 (N=48)					
General compatibility					
Low load	70.36 [56.33, ∞]	1.22			
High load	64.55 [55.64, ∞]	1.75			
High – Low load	-5.81 [-16.77, ∞]	-0.13	11.24		

Supplementary Table 3. Reaction time data in the SRC task during Experiments 2 and 3 excluding participants with less than 55% performance in the working memory task.

Experiment and Condition	Experime	ent 2 (N=26)	Experiment 3 (N=13)				
_	Compatibility effect			Compatibility effect			
	Milliseconds [95% CI]	Cohen's dz	BF ₀₁	Milliseconds [95% CI]	Cohen's dz	BF ₀₁	
Spatial compatibility (imitatively compatible)							
Low load	38.31 [25.75, ∞]	1.02		40.77 [25.61, ∞]	1.33		
High load	51.84 [37.13, ∞]	1.18		39.01 [19.10, ∞]	0.97		
High – Low load	13.53 [1.54, ∞]	0.38	0.51	-1.77 [-26.78, ∞]	-0.04	3.93	
Spatial compatibility (imitative incompatible)							
Low load	42.09 [25.38, ∞]	0.84		31.59 [10.88, ∞]	0.75		
High load	32.42 [16.89, ∞]	0.70		19.91 [-12.96, ∞]	0.30		
High – Low load	-9.67 [-27.63, ∞]	-0.18	8.51	-11.68 [-39.50, ∞]	-2.10	5.68	
Imitative compatibility (spatially compatible)							
Low load	26.85 [11.88, ∞]	0.60		16.19 [-3.52, ∞]	0.41		
High load	31.83 [19.43, ∞]	0.86		32.11 [3.48, ∞]	0.55		
High – Low load	4.98 [-10.25, ∞]	0.11	2.98	15.92 [-6.81, ∞]	0.35	1.09	
Imitative compatibility (spatially incompatible)							
Low load	30.64 [12.38, ∞]	0.42		7.00 [-15.42, ∞]	0.15		
High load	12.42 [-3.64, ∞]	0.26		13.00 [-7.16, ∞]	0.32		
High – Low load	-18.22 [-37.53, ∞]	-0.32	11.40	6.01 [-21.29, ∞]	0.11	2.63	